

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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9375

First Named Inventor: Bulucea, Constantin

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Farhani, D.

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Title:

Gate-Enhanced Junction Varactor

Assignee(s):

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Mountain View, California 14 January 2004

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AMENDMENT

Sir:

Responsive to the Office Action mailed 16 September 2003, please amend the above patent application in the following manner.

IN THE SPECIFICATION

Amend paragraph 145 as follows:

[0145] The present gate-enhanced junction varactor can be employed in various ways in electronic circuitry, especially in integrated circuits. Fig. 17 illustrates general electronic circuitry configured in accordance with the invention for utilizing an n-channel version of the present varactor with gate-to-body bias voltage V_{GB} being maintained approximately constant during varactor operation. The electronic circuitry in Fig. 17 is connected between a source of a high supply voltage V_{HH} and a source of low supply voltage V_{LL}, typically ground. The components of the electronic circuitry consist of a general electronic circuit 230, an n-channel gate-enhanced junction varactor C1 configured according to the invention, a varactor control system 232, and an optional level shifter 234.

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